**General information on Slip Resistance ‘ratings’**

All classification (rating) methods for slip resistance have inherent limitations and may underestimate or overestimate the available friction in unpredictable ways. Some methods may be more appropriate than others depending upon the specific circumstances of use. In addition, building specifications vary and may require either a R (Oil Ramp) or P (Pendulum) or both classifications. In addition, where areas are subject to barefoot traffic, a Wet Barefoot ramp classification (A/B/C rating) may be specified.

**RANGE OF Slip RESISTANCE TEST methods available**

*AS 4586: 2013 - Slip resistance classification of new pedestrian surface materials*

**Wet Pendulum - ‘P’ Rating** (AS 4586 - Appendix A)

* **Minimum Specimen Size & Quantity**

For tiles or other discrete flooring products (ceramics, stone, carpet tile, vinyl tile/plank) a minimum of five (5) individual specimens being at least 150x150 mm each.

For flooring products that are either a coating system (paint, epoxy, etc), or a sheet type product (vinyl, rubber, carpet, etc) then one (1) specimen being a minimum size of approximately 1000x500 mm is required.

**Dry Floor Friction** - **‘D’ Rating** (AS 4586 - Appendix B)

* **Minimum Specimen Size & Quantity**

Minimum specimen size is 1000x250 mm or sufficient individual specimens to make up required area.

**Wet-Barefoot Inclining Platform - ‘A’, ‘B’ or ‘C’ Rating** (AS 4586 - Appendix C)

* Is intended for use in predominantly barefoot areas, such as pool surrounds, shower areas, change rooms.
* **Minimum Specimen Size & Quantity**

Minimum specimen size is 1000x500 mm (0.5m2) or sufficient individual specimens to make up required area. The maximum specimen size is 1200x600 mm.

**Oil-Wet Ramp Inclining Platform ‘R’ Rating** (AS 4586 - Appendix D).

* **Minimum Specimen Size & Quantity**

Minimum specimen size is 1000x500 mm (0.5m2) or sufficient individual specimens to make up required area. The maximum specimen size is 1200x600 mm.

**General information on Accelerated Wear TEST**

AS 4586 (Section A3) requires that where permanence of slip resistance is specified, then this ‘*shall be determined after the appropriate accelerated aging or wear*’. ATTAR provides Accelerated Wear Testing, performed in conjunction with Wet Pendulum Testing to assess the slip resistance. ATTAR considers that 5000 cycles represents a reasonable indication of the permanence of slip resistance, although as little as 50 wear cycles can be performed where the early wear behaviour of a surface is of interest.

**2 or 5 Stage Wear Assessment**

* **2 Stage** wear assessment provides slip testing before and after abrasion cycling (default 5000 cycles) to simulate the effects of wear.
* **5-Stage** wear assessment provides insight into the progressive wear behaviour by adding tests at intermediate wear intervals, for which the default abrasion cycle intervals are 0, 100, 500, 1000 & 5000.

**Indicative or AS4586 Wear Assessment**

* **Indicative** - A single specimen can be subjected to wear in order to provide an ‘indicative’ assessment of wear characteristics, which represents the most economical way to gauge the wear performance of flooring products.
* **AS4586** - For more accurate assessment of wear, complete AS 4586 testing can be undertaken at each wear stage, requiring 5 specimens to be worn and an average result obtained. This approach is recognised by NATA and a NATA endorsed report is provided by ATTAR for such testing.

***Accelerated Wear Testing can also be tailored to meet client-specific requirements upon request.***

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **COMPANY NAME:** |  | | | | | **DATE:** |  | **PURCHASE ORDER NO:** | |  | |
| **CONTACT NAME:** |  | | | | | **EMAIL:** |  | | | | |
| **STREET ADDRESS:** |  | | | | | **PHONE:** |  | | **MOBILE:** |  | |
| **SUBURB:** |  | | | | | **STATE:** |  | | **POSTCODE:** |  | |
| **PRODUCT DESCRIPTION OF SAMPLE(s):**  **This description will be used on the test report, please**  **ensure that all samples supplied are clearly labeled.** | | | **Sample Size**  **&**  **No. of Items** | **MARK EACH TEST METHOD THAT IS REQUIRED:** | | | | | | | |
| **Wet Pendulum**  **‘P’ Rating**  (AS 4586 - Appendix A) | | **Accelerated Wear Test**  *5000 wear cycles is default unless specified otherwise* | | **Dry Floor Friction**  **‘D’ Rating**  (AS 4586 - Appendix B) | **Wet-Barefoot Inclining Platform**  **‘A/ B/C’ Rating**  (AS 4586 - Appendix C) | **Oil-Wet Inclining Platform**  **‘R’ Rating**  (AS 4586 - Appendix D) | **Luminance Contrast**  (AS 1428.1 or  AS 1428.4.1) |
| **Wear Assessment Type** | |
| Indicative | AS4586\* |
|  | | |  | Slider 96# \_\_*(default)*  Slider 55# | | 5 Stage  2 Stage | 5 Stage  2 Stage |  |  |  | Dry  Wet |
|  | | |  | Slider 96# \_\_*(default)*  Slider 55# | | 5 Stage  2 Stage | 5 Stage  2 Stage |  |  |  | Dry  Wet |
|  | | |  | Slider 96# \_\_*(default)*  Slider 55# | | 5 Stage  2 Stage | 5 Stage  2 Stage |  |  |  | Dry  Wet |
|  | | |  | Slider 96# \_\_*(default)*  Slider 55# | | 5 Stage  2 Stage | 5 Stage  2 Stage |  |  |  | Dry  Wet |
|  | | |  | Slider 96# \_\_*(default)*  Slider 55# | | 5 Stage  2 Stage | 5 Stage  2 Stage |  |  |  | Dry  Wet |
| **Additional Instructions:** | | | | | | | | | | | |
| **Will samples be collected after testing?** | | Yes  No | | | **PLEASE NOTE: Samples not collected within 1 month of testing will be disposed** | | | | | | |

***#*** *Either the Slider 96 rubber (harder)* ***OR*** *the Slider 55 rubber (softer) may be used for the Wet Pendulum Test. While the Slider 96 is appropriate for most situations, ATTAR recommends the Slider 55 for flooring materials intended to be used in wet barefoot areas or products which are unusually rough or highly profiled. Selection of the Slider 55* ***and*** *Slider 96 will incur additional cost.*

**\*** *AS4586 Accelerated Wear Testing requires additional specimens to pack out the wear path length, therefore 6 specimens pre-cut to 300mm x 150mm* ***or*** *12 specimens pre-cut to 150x150mm is required to conduct the test (other than for flexible sheet material)*

**General information on Luminance Contrast Testing**

Australian Standard AS 1428.1: 2009 sets out the methodology for measuring the luminance contrast between adjacent building elements, while AS/NZS 1428.4.1: 2009 similarly sets out the methodology for measuring the luminance contrast in the specific case where one of the materials is a Tactile Ground Surface Indicator (TGSI) product.

Both AS 1428.1: 2009 and AS/NZS 1428.4.1: 2009 set out requirements for the measurement of luminance reflectance and, if applicable, for establishing the luminance contrast between two surface types.

* **Minimum Specimen Quantity**

For all flooring materials, including TGSIs, a minimum of five (5) individual specimens is required.

**Submission of samples to ATTAR**

All flooring products shall be supplied as they would be on a finished pedestrian surface. Therefore, samples must be fully cured, sealed, polished, etc. Any flooring product that consists of small discrete elements such as mosaic tiles (50x50 mm or less) are required to be mounted and grouted to a suitable substrate.

**Minimum specimen sizes and minimum number of specimens MUST be as indicated on the front page of this request form, as stipulated for those particular method(s) selected. Testing cannot commence if the specimen requirements are not met.**

All samples are to be sent to: ATTAR – Unit 1, 64 Bridge Road, Keysborough, Victoria, 3173.

Note: Where ATTAR has arranged to provide freight of the samples to the Keysborough laboratory, the client is responsible for all freight costs incurred by ATTAR.

**Documentation**

The Slip Testing Request details on the previous page of this form must be completed in full, to ensure we have all relevant information to complete the work. For any further information please contact us.

**Requests for reissuance of reports**

When considering requests for modifying and reissuing reports, ATTAR is obliged to take into account the applicable NATA requirements and good laboratory practice in general. Requests which can be accommodated will generally attract a fee, which will be based on the complexity of the request.

**Terms and Conditions**

|  |  |
| --- | --- |
| 1. Interpretation  “Agreement” means these Terms and Conditions including the cover page and any other attachments.  “Confidential information” means all information that is confidential in nature which passes from ATTAR to the Client or the Client to ATTAR including but not limited to trade secrets, know how, techniques, sources, business and marketing plans, projections, arrangements, agreements with third parties, resident information, concepts not reduced to material form, and documentation including agreements, financial data and statements and leases, however communicated whether orally, visually, electronically or otherwise.  2. Provision of Services by ATTAR  2.1 This Agreement commences from the date of signing by both parties and continues until either party terminates this Agreement pursuant to clause 5 or upon the expiry of the Minimum Testing Period.  2.2 ATTAR must provide the Services at the Testing Location or such other place or places which the Client may from time to time authorise.  2.3 The Services must be provided by ATTAR in a proper and workmanlike manner and in compliance with the reasonable direction of the Client.  2.4 ATTAR will endeavour to provide the Services (including the Report and associated data) by the Reporting Deadline. If ATTAR is unable to meet the Reporting Deadline, it must notify the Client of the delay, the reasons for the delay and the revised Reporting Deadline.  2.5 ATTAR will instruct any of its employees or sub-contractors conducting the Services to comply with all reasonable directions of the Client regarding the health, safety and security of the Testing Location  3. Obligations of the Client  3.1 In consideration for ATTAR providing the Services and the Report, the Client will pay the Fee in accordance with the fee schedule set out in cover sheet.  3.2 All invoices issued by ATTAR must be paid within 30 days from date of receipt of invoice.  3.3 If payment is not made by the Client in accordance with clauses 3.1 and 3.2, ATTAR may discontinue providing the Services, withhold the Report and any data obtained and/or terminate the Agreement in accordance with clause 5.2.  3.4 The Client must ensure that the Testing Location is a healthy and safe working environment and that any ATTAR employees or sub-contractors conducting the Services are informed of the Client’s health, safety and security policies.  4. Limitation of Liability  4.1 ATTAR will not be liable to the Client for any indirect or consequential damage suffered by the Client in any way arising from the provision of the Services.  4.2 ATTAR’s liability to the Client for any breach by it of a term of this Agreement or any implied warranty is limited, at ATTAR’s option, to either re-performing the Services or refunding the Fee paid in respect of the part of the Services involved in the breach.  4.3 Any other terms, conditions and warranties implied by common law or statute (the “implied warranties”) as to the manner, quality and timing of the Services are excluded unless the exclusion of any such implied warranties would contravene the law or cause any part of this Agreement to be void.  5. Termination  5.1 This Agreement may be terminated if:   1. (a) a party commits a breach or is in default of any warranty of this Agreement; and 2. (b) the defaulting party fails to correct such breach or default within 14 days of receiving notice specifying such breach or default from the non-defaulting party.   5.2 Notwithstanding clause 5.1, ATTAR may terminate this Agreement immediately by providing written notice to the Client in the event the Client breaches clauses 3.1, 3.2 or 3.4 of this Agreement, in which case the full Fee stated in the cover sheet is payable regardless of whether the Services have been completed or not. | 6. Indemnities  6.1 The Client indemnifies ATTAR from and against any costs, damages, loss or liability of any kind (including legal costs and disbursements in defending or settling the claim giving rise to same) however suffered or incurred by ATTAR by virtue of a breach of this Agreement by the Client.  6.2 The indemnity contained in subclause 6.1 extends (without limiting the generality of the foregoing) to any costs, damages, loss or liability (including legal costs and disbursements in defending or settling the claim giving rise to the same) incurred by ATTAR by virtue of any injury or disability suffered by any employee or sub-contractor of ATTAR, arising by whatever legal theory (whether statutory, tortuous or otherwise).  7. Confidentiality  7.1 The parties acknowledge that during the course of this Agreement, ATTAR may become acquainted with or have access to Confidential Information. ATTAR during and after the Testing Period must maintain the Confidential Information and prevent its unauthorised disclosure to or use by any other person, firm or client, unless prior written authorisation is obtained.  7.2 Notwithstanding clause 8.1, ATTAR may keep copies of any reports or data that form part of the Services and may reproduce and use such reports or data for its own internal research and record keeping purposes.  7.3 The Client acknowledges that the reports and data provided by ATTAR as part of the Services are for the Client’s internal business purposes and are not for general publication, unless otherwise stated in the description of the Services.  7.4 Nothing in this Agreement imposes an obligation on ATTAR with respect to maintaining confidence regarding information which is generally known or available by publication, commercial use or otherwise.  8. Relationship of parties  ATTAR’s relationship with the Client is that of independent contractor. Neither ATTAR nor the Client has (nor may it represent that it has) any power, right or authority to bind the other, or to assume or create any obligation or responsibility, express or implied, on behalf of the other or in the other’s name. Nothing stated in this Agreement must be construed as constituting ATTAR and the Client as partners, or as creating the relationship of employer and employee, master and servant or principal and agent between the parties.  9. General  9.1 All notices and consents required or permitted to be given under this Agreement must be in writing and given by personal service, pre-paid postage, a facsimile transmission at the addresses of the parties set out in this Agreement or to such other address as either party may designate to the other by written notice.  9.2 Neither this Agreement nor any rights or obligations of the Agreement may be assigned or otherwise transferred by either party without the prior written permission of the other.  9.3 This Agreement is governed by the laws of Victoria and the parties submit to the jurisdiction of the courts of that State and the Commonwealth of Australia.  9.4 This Agreement may be amended only in writing signed by duly authorised persons for both parties.  9.5 If any provision of the Agreement should be held to be invalid in any way or unenforceable, the remaining provisions must not in any way be affected or impaired. This Agreement must be construed so as to most nearly give effect to the intent of the parties as it was originally executed.  9.6 This Agreement comprises the entire agreement between the parties in relation to its subject matter and no earlier agreement, understanding or representation, whether oral or in writing, in relation to any matter dealt with in this agreement will have any effect from the date of this Agreement.  9.7 The failure, delay or omission by a party to exercise any power or right conferred by this Agreement will not operate as a waiver of that power or right, nor will any single exercise of any such power or right preclude any other or future exercise of the power, or the exercise of any other power of right under this Agreement. |